



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

SCHAEFFER et al

Serial No. 09/917,796

Filed: July 31, 2001

For: THERMAL BARRIER COATING

Atty. Ref.: 839-856

Group: 1775

Examiner: McNeill

RECEIVED

OCT 25 2002

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October 21, 2002

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

AMENDMENT

Responsive to the Official Action dated June 20, 2002 (for which petition is hereby made for a one month extension of time), please amend the above-identified application as follows:

IN THE CLAIMS

Please cancel claims 1-8, and add the following new claims:

9. (New) A thermal barrier coating applied to a metallic component of a gas turbine engine comprising a top layer of a dense vertically cracked ceramic consisting of 1 to 6 weight % Yttria, 0-1 weight % Hafnia, and the balance Zirconia, and a bond coating adhering said ceramic layer to said metallic component, said bond coating comprising an oxidation-resistant alloy of MCrAlY with a thickness of about .003 to .025 inches, where M is iron, cobalt or nickel.

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